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Mas	Α	6	3	2	9	2	0	9	12/11/01	Wagner et al.	436	518	07/14/99
1	В	6	3	6	5	4	1	8	04/02/02	Wagner et al.	436	518	05/18/00
Mco	С	6	4	0	6	9	2	1	06/18/02	Wagner et al.	436	518	07/14/98

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mcs	D	0	1	5	1	9	1	2	07/19/01	PCT				
	E	0	1	6	2	8	8	7	08/30/01	PCT				
	F	0	1	6	3	2	4	1	08/30/01	PCT				
	G	0	1	7	2	4	5	8	10/04/01	PCT				
	Н	0	1	9	4	9	5	0	12/13/01	PCT				
	1	0	1	9	8	4	5	8	12/27/01	PCT				
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MC6	АА	3	8	4	3	4	4	3	10/22/74	Fishman	195	63	03/30/73
)	АВ	3	9	3	9	1	2	3	02/17/76	Matthews <i>et al.</i>	260	77.5	06/18/74
	AC	4	0	0	6	1	1	7	02/01/77	Merrifield et al.	260	45.9	06/06/75
	AD	4	1	6	2	3	5	5	07/24/79	Tsibris	526	293	06/30/76
	AE	4	1	7	1	4	1	2	10/16/79	Coupek et al.	525	329	04/17/75
	AF	4	1	7	5	1	8	3	11/20/79	Ayers	536	57	05/24/78
	AG	4	1	7	7	0	3	8	12/04/79	Biebricher et al.	8	192	05/17/77
	АН	4	1	7	8	4	3	9	12/11/79	Ayers et al.	536	59	03/01/77
	AI	4	1	7	9	4	0	2	12/18/79	Kim <i>et al.</i>	252	431	05/15/78
	AJ	4	1	8	Ò	5	2	4	12/25/79	Reusser et al.	585	644	02/16/78
	AK	4	2	4	1	5	3	7	12/30/80	Wood	47	77	05/10/79
	AL	4	2	8	2	. 2	8	7	08/04/81	Giese	428	407	01/24/80
	АМ	4	4	3	9	5	8	5	03/27/84	Gould et al.	525	127	09/02/82
	AN	4	4	8	5	2	2	7	11/27/84	Fox	528	61	06/16/83
	AO	4	5	0	7	2	3	0	03/26/85	Tam <i>et al.</i>	260	112.5	05/12/82
	AP	4	5	4	2	1	0	2	09/17/85	Dattagupta <i>et al.</i>	435	6	07/05/83
	AQ	4	5	6	2	1	5	7	12/31/85	Lowe et al.	435	291	05/25/84
	AR	4	5	6	9	9	8	1	02/11/86	Wenzel <i>et al</i> .	528	67	07/06/81
	AS	4	5	9	1	5	7	0	05/27/86	Chang	435	7.24	02/02/83
	АТ	4	6	8	1	8	7	0	07/21/87	Balint, Jr. et al.	502	403	01/11/85
1	AU	4	6	8	3	- 1	9	5	07/28/87	Mullis- <i>et al.</i>	435	6	02/07/86
	AV	4	6	8	3	2	0	2	07/28/87	Mullis	435	91	10/25/85
V	AW	4	7	6	2	8	8	1	08/09/88	Kauer	525	54.11	01/09/87
mac	AX	4	8	8	5	2	5	0	12/05/89	Eveleigh <i>et al.</i>	435	181	03/02/87

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mco	AY	4	9	2	7	8	7	9	05/22/90	Pidgeon	525	54.1	10/24/88
1	AZ	4	9	3	1	4	9	8	06/05/90	Pidgeon	525	54.1	02/25/88
	ВА	4	9	4	6	7	7	8	08/07/90	Ladner et al.	435	69.6	01/19/89
	ВВ	4	9	5	4	4	4	4	09/04/90	Eveleigh <i>et al.</i>	435	181	12/17/87
	вс	4	9	8	7	0	3	2	01/22/91	Miyasaka <i>et al.</i>	428	411.1	06/24/88
	BD	5	0	9	2	9	9	2	03/03/92	Crane et al.	210	198.2	05/17/91
	BE	5	1	5	4	8	0	8	10/13/92	Miyasaka <i>et al.</i>	204	157.15	06/12/91
	BF	5	2	2	5	5	3	9	07/06/93	Winter	530	387.3	10/25/91
	BG	5	3	2	8	6	0	3	07/12/94	Velander et al.	210	198.2	08/19/92
	вн	5	3	3	4	6	4	0	08/02/94	Desai <i>et al.</i>	524	56	04/08/92
	ВІ	5	3	8	9	4	4	9	02/14/95	Afeyan et al.	428	523	01/05/93
	BJ	5	4	0	3	7	5	0	04/04/95	Braatz <i>et al.</i>	436	531	04/08/91
	вк	5	4	0	5	7	6	6	04/11/95	Kallury <i>et al.</i>	435	174	03/25/93
	BL	5	4	1	2	0	8	7	05/02/95	McGall et al.	535	24.3	04/24/92
	ВМ	5	4	1	6	1	9	3	05/16/95	Desai	530	334	04/30/93
	BN	5	4	3	2	0	1	8	07/11/95	Dower et al.	435	5	06/20/91
	во	5	4	4	3	8	1	6	08/22/95	Zamora <i>et al.</i>	424	1.69	02/20/92
	BP	5	4	4	5	9	3	4	08/29/95	Fodor et al.	435	6	09/30/92
	BQ	5	4	5	1	6	8	3	09/19/95	Barrett <i>et al.</i>	548	302.7	04/23/93
	BR	5	4	9	4	8	1	0	02/27/96	Barany <i>et al.</i>	435	91.52	11/22/94
	BS	5	4	9	6	9	3	8	03/05/96	Gold et al.	536	22.1	10/21/92
	ВТ	5	5	4	7	8	3	9	08/20/96	Dower et al.	435	6	12/06/90
1	BU	5	5	5	6	7	5	2	09/17/96	Lockhart <i>et al</i> .	435	6	10/24/94
mag	BV	5	5	8	2	9	8	1	12/10/96	Toole <i>et al.</i>	435	6	04/28/94

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MC6	BW	5	6	2	0	8	5	0	04/15/97	Bamdad <i>et al.</i>	530	300	09/26/94
	вх	5	6	2	9	2	1	3	05/13/97	Kornguth et al.	436	518	03/03/95
	BY	5	6	7	7	1	9	6	10/14/97	Herron et al.	436	518	06/22/94
	BZ	5	6	8	8	6	4	2	11/18/97	Chrisey et al.	435	6	12/01/94
	CA	5	7	4	1	4	6	2	04/21/98	Nova et al.	422	68.1	04/25/95
	СВ	5	7	4	4	3	0	5	04/28/98	Fodor <i>et al.</i>	435	6	06/06/95
	СС	5	7	5	1	6	2	9	05/12/98	Nova et al.	365	151	06/07/95
	CD	5	7	7	6	6	7	4	07/07/98	Ulmer	435	6	06/05/95
	CE	5	8	4	0	8	6	7	11/24/98	Toole <i>et al.</i>	536	23.1	05/03/94
	CF	5	8	6	1	2	5	4	01/19/99	Schneider et al.	435	6	01/31/97
	CG	5	8	7	4	2	1	4	02/23/99	Nova et al.	435	6	10/03/95
	СН	5	8	8	8	7	3	2	03/30/99	Hartley et al.	435	6	06/07/96
	CI	5	9	1	6	8	0	4	06/29/99	Bushman	435	325	04/17/98
	CJ	5	9	1	6	8	1	0	06/29/99	Jarvik	435	440	07/28/97
	СК	5	9	2	5	5	6	2	07/20/99	Nova <i>et al.</i>	435	287.1	06/07/95
	CL	5	9	4	8	6	7	7	09/07/99	Jarvik	435	325	12/09/96
	СМ	5	9	6	1	9	2	3	10/05/99	Nova et al.	422	68.1	09/30/96
	CN	5	9	7	2	6	3	9	10/26/99	Parandoosh	435	29	07/24/97
	со	6	0	1	3	4	8	7	01/11/00	Mitchell	435	91.3	12/13/96
	СР	6	0	1	7	4	9	6	01/25/00	Nova et al.	422	68.1	09/06/96
	ca	6	0	2	- 5	1	2	9.	02/-1-5/00	Nova et al.	435	- 6	12/05/95
	CR	6	0	6	0	2	4	0	05/09/00	Kamb <i>et al.</i>	435	6	12/13/96
V	cs	6	0	8	7	1	8	6	07/11/00	Cargill <i>et al</i> .	436	518	02/02/95
mor	СТ	6	0	9	6	7	1	7	08/01/00	Jarvik	514	44	11/08/96

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mas	Cυ	6	6 1 0 3 4 6						08/15/00	Chetverin et al.	435	6	05/23/94
1	cv	6	1	1	7	6	7	9	09/12/00	Stemmer	435	440	03/25/96
•	cw	6	1	4	0	1	2	9	10/31/00	Cox et al.	435	477	09/16/98
	сх	6	1	4	3	5	5	7	11/07/00	Hartley et al.	435	320.1	01/20/99
	CY	6	1	7	1	8	6	1	01/09/01	Hartley et al.	435	455	01/12/98
	CZ	6	1	7	4	7	0	8	01/16/01	Sodoyer et al.	435	91.1	01/22/99
	DA	6	2	0	7	4	4	6	03/27/01	Szostak <i>et al.</i>	435	287.2	10/29/99
	DB	6	2	1	4	5	5	3	04/10/01	Szostak <i>et al.</i>	435	6	02/05/99
	DC	6	2	2	5	0	7	7	05/01/01	Schmidt et al.	435	19	09/05/99
<u> </u>	DD	6	2	3	8	9	2	3	05/29/01	Passmore et al.	435	440	11/01/99
mar	DE	6	4	0	3	3	0	9	06/11/02	Iris <i>et al.</i>	435	6	03/19/99

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mar	DF	0	0	0	4	3	8	2	01/27/00	PCT	1			
	DG	0	0	0	4	3	8	9	01/27/00	PCT				
	DH	0	0	0	4	3	9	0	01/27/00	PCT				
	DE	0	0	2	4	9	3	7	05/04/00	PCT				
	DJ	0	0	5	6	4	4	6	09/28/00	PCT				
	DK	0	0	6	0	3	6	1	10/12/00	PCT				
	DL	0	1	1	3	1	1	9	02/22/01	PCT				
V	DM	0	1	1	4	5	8	9	03/01/01	PCT				}
vuc6	DN	0	2	2	7	2	0	81	06/11/90	JP	<u> </u>	<u> </u>		x*

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-ma		DO	0	5	9	6	4	2	1	05/11/94	EP		7	1	X*
1		DP	8	6	0	3	8	4	0	07/03/86	PCT				1
$\neg$		DQ	9	5	3	5	5	0	5	12/28/95	PCT				7
-		DR	9	6	3	0	0	4	3	10/03/96	РСТ				
		DS	9	7	4	2	3	4	8	11/13/97	PCT				
		DT	9	8	1	5	8	2	5	04/16/98	PCT				
		DU	9	8	2	0	0	1	9	05/14/98	PCT				
		DV	9	8	2	0	0	2	0	05/14/98	PCT				
		DW	9	8	2	3	9	4	8	06/04/98	PCT				
$\neg$		DX	9	8	2	3	9	5	0	06/04/98	PCT				
		DY	9	8	3	1	7	3	2	07/23/98	PCT				
$\neg$		DZ	9	8	3	9	4	8	1	09/11/98	PCT				
$\top$		EA	9	8	4	3	0	8	6	10/01/98	PCT				
		EB	9	8	5	0	7	7	3	11/12/98	PCT				
	-	EC	9	9	1	2	0	4	0	03/11/99	PCT				
		ED	9	9	1	9	5	1	5	04/22/99	PCT				
		EE	9	9	3	2	6	6	3	07/01/99	PCT				
		EF	9	9	3	9	2	1	0	08/05/99	PCT				
_		EG	9	9	4	5	1	4	9	09/10/99	PCT				
$\rightarrow$		EH	9	9	5	7	3	1	8	11/11/99	PCT				
ma		EI	9	9	6	0	0	- 0	7	11/25/99	PCT	1 7			
	•					<u> </u>									

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mas	EJ	Antibodies: A Laboratory Manual, Harlow et al.; Cold Spring Harbor Laboratory;1988
	EJ	Antibody Engineering, Borrebaeck, Carl A.K., 2nd ed.; New York: Oxford University Press; 1995
	EL	Antibody Engineering: <u>A Practical Approach;</u> McCafferty <i>et al.</i> ; Oxford University Press, Oxford (1996)
	EM	ATCC Acession No.: CRL-1606; HFN7.1; spleen; B lymphocyte; hybridoma
	EN	ATCC Acession No.: HB-8162; 10F7MN; B lymphocyte; hybridoma
	EO	Ault-Riche <i>et al.</i> , "A Single Mutation at Lysine 426 of Human Placental S-Adenosylhomocysteine Hydrolase Inactivates the Enzyme", <i>J. Biol. Chem.</i> , 269(50):31472-31478 (1994)
	EP	Ault-Riche <i>et al.</i> , "Definitive Enzymatic Assays in Polyphosphate Analysis", <i>Prog. Mol. Subcell Biol.</i> , <u>23</u> :241-252 (1999)
	EQ	Ault-Riche <i>et al.</i> , "Effects of 4'-Modified Analogs of Aristeromycin on the Metabolism of S-Adenosyl-L-Homocysteine in Murine L929 Cells", <i>Mol. Pharmacol.</i> , <u>42(6)</u> :989-997 (1993)
	ER	Ault-Riche <i>et al.</i> , "Novel Assay Reveals Multiple Pathways Regulating Stress-Induced Accumulations of Inorganic Polyphosphate in <i>Escherichia coli</i> ", <i>J. Bacteriol.</i> <b>180(7)</b> : 1841-1847 (1998)
	ES	Baldwin <i>et al.</i> , "Synthesis of a Small Molecule Combinatorial Library Encoded with Molecular Tags", <i>J. Am. Chem. Soc.</i> , <u>117:</u> 5588-5589 (1995)
	ET	Barany, F., "LCR: The Ligase Chain Reaction in a PCR World, PCR Methods and Applications", <i>Review</i> , <u>1</u> :5-16 (1991)
	EU	Barbas et al., "Assembly of Combinatorial Antibody Libraries on Phage Surfaces: The Gene III Site", PNAS, 88:7978-7892 (1991)
	EV	Batra <i>et al.</i> , "Insertion of Constant Region Domains of Human IgG <sub>1</sub> into CD4-PE40 Increases its Plasma Half-life", <i>Molecular Immunology</i> , 30(4):379-386 (1993)
	EW	Beattie et al., "Genosensor Technology", Clin. Chem., 39(4):719-22 (1993)
1	EX	Berg et al., "Polystyrene-Grafted Polyethylene: Design of Film and Felt Matrices for Solid Phase Peptide Synthesis", Innovation Perspect. Solid Phase Synth. Collect Pap., Int. Symp., 1st, Epton, Roger (Ed), pp. 453-459 (1990)
mas	EY	Berg et al., "Peptide Synthesis on Polystyrene-Grafted Polyethylene Sheets", Pept., Proc Eur. Pept. Symp., 20th, Jung, G. et al. (Eds), pp. 196-198 (1989)

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	FA	Biochemical Nomenclature, "IUPAC-IUB Commission on Biochemical Nomenclature Symbols for Amino-Acid Derivatives and Peptides Recommendations", <i>Biochem.</i> , 11(9):1726 (1972)
	FB	Brignac, Jr. et al., "A Proximal CCD Imaging System for High-Throughput Detection of Microarray-Based Assays", <i>IEEE Eng. Med. Biol.</i> , pp. 120-122 (1999)
	FC	Broach <i>et al.</i> , "Recombination within the Yeast Plasmid $2\mu$ Circle is Site-Specific", <i>Cell</i> , 29:227-234 (1982)
	FD	Bunin <i>et al.</i> , "The Combinatorial Synthesis and Chemical and Biological Evaluation of a 1,4-Benzodiazepine Library", <i>PNAS</i> , <u>91</u> :4708-4712 (1994)
	FE	Calkins, K., "Going Deep", BioCentury, 7:A1-A5 (1999)
	FF	Cantor et al., "Intein-Mediated Rapid Purification of Cre Recombinase", Protein Expression & Purification, 22(1):135-140 (2001)
	FG	Chen et al., "'Analogous' Organic Synthesis of Small-Compound Libraries: Validation of Combinatorial Chemistry in Small-Molecule Synthesis", J. Am. Chem. Soc., 116:2661 (1994)
	FH	Coljee et al., "Seamless Gene Engineering Using RNA- and DNA Overhang Cloning", Nat. Biotechnol., 18(7):789-791 (2000)
	FI	Datta et al., "Triplex-induced Recombination in Human Cell-free Extracts", J. Biol. Chem. 276(21):18018-18023 (2001)
	FJ	De Marini <i>et al.</i> , "Oligonucleotide-Mediated, PCR-Independent Cloning by Homologous Recombination", <i>Biotechniques</i> , 30(3):520-523 (2001)
	FK	DeHaard <i>et al.</i> , "A Large Non-immunized Human Fab Fragment Phage Library that permits Rapid Isolation and Kinetic Analysis of High Affinity Antibodies", <i>J. Biol. Chem.</i> , <u>274</u> :18218-18230 (1999)
	FL	Derwent #008486620, WPI Acc. No. 1990-373620/199050, for Japanese Patent Application No. JP 2272081, cited at Item DN.
	FΜ	Derwent #009872921, WPI Acc. No. 1994-152834/199419, fo European Patent Application No. EP 596421 A, cited at Item DO.
MCG	FN	DeWitt <i>et al.</i> , "'Diversomers': An Approach to Nonpeptide, Nonoligomeric Chemical Diversity", <i>PNAS</i> , <u>90</u> :6909-6913 (1993)

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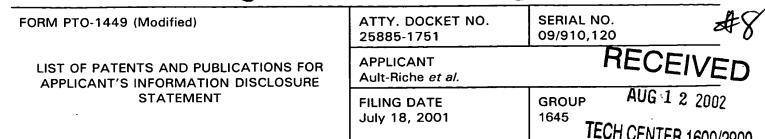
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